

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L9	3511	((342/147) or (342/148) or (342/157) or (342/158) or (342/189) or (342/194) or (342/195) or (342/70) or (342/71) or (342/72) or (342/90)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/13 07:50
L10	2549	9 and @ad<="20040218"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 07:51
S1	614	crossrange or cross-range or (cross adj range)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 05:08
S2	1195155	(angle or angular or azimuth or azimuthal or direction or directional) same (target or object)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 05:09
S3	405	S1 and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 05:09
S4	482395	((first same second) or two or dual) same beam	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 05:10
S5	154	S3 and S4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 05:11
S6	2473959	scan or scanning or scanned	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 05:11

S7	102	S5 and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 05:12
S8	98	S7 and @ad<="20040218"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/13 05:12

# SEARCH NOTES FOR EAST AND IEEE AND INSPEC AND IP.COM

**SERIAL NUMBER**

10781500

## **EAST SEARCH**

EAST: search history attached

## **IEEE SEARCH**

Search terms:

**(angle or angular or azimuth or azimuthal or direction or directional)  
and (target or object) and (crossrange or cross-range)**

**An efficient filtering algorithm for improved radar tracking**

Seong-Taek Park; Jang Gyu Lee

Control Applications, 1996., Proceedings of the 1996 IEEE International Conference on  
15-18 Sep 1996 Page(s):1078 - 1083

**"The multisensor tracking system with the airborne sensor to mitigate the effect of  
cross-range errors",** Kawamoto, D.; Kawase, T.; Hashirao, M.; Sasase, I. Vehicular  
Technology Conference, 2000. IEEE VTS-Fall VTC 2000. 52<sup>nd</sup> Vol 5, 2000 P(s):2101-  
2107

**3. A new method of cross-range scaling of low resolution radar**

Zhenglin Jiang; Zheng Bao

Signal Processing Proceedings, 2000. WCCC-ICSP 2000. 5th International Conference  
on  
Volume 3, 2000 Page(s):1822 - 1825 vol.3

**"An analysis of tracking gate for maneuvering targets",** Matsuzaki, T.; Ito, M.;  
Kosuge, Y. SICE 2002. Proceedings of the 41st SICE Annual Conference Vol 1, 5-7 Aug.  
2002 Page(s): 187 - 192

## **INSPEC SEARCH**

Search terms:

**Search strategy**

**No. Database Search term Info added  
since Results**

**1 INZZ**

**(angle OR angular OR  
azimuth OR azimuthal OR**

direction OR directional)  
AND (target OR object) AND  
(crossrange OR cross-range)  
unrestricted 2  
Saved: 13-Jun-2005, 14:01:58 CET  
2

INSPEC - 1969 to date (INZZ)  
**Range-angle coupling in target tracking.**

*Author(s)*  
Fitzgerald-R-J.

*Source*  
Signal and Data Processing of Small Targets 1999, Denver, CO, USA, 20-22 July 1999.  
Sponsors: SPIE.  
In: Proceedings-of-the-SPIE-The-International-Society-for-Optical-Engineering (USA),  
vol.3809,  
p.256-69, 1999.  
COPYRIGHT BY Inst. of Electrical Engineers, Stevenage, UK  
**Conditional equivalence of target backscatter with synthetic aperture and real  
aperture antenna  
systems.**

*Author(s)*  
Knittel-G-H.

*Source*  
AP-S International Symposium 1986. 1986 International Symposium Digest Antennas and  
Propagation (Cat.  
No.86CH2325-9), Philadelphia, PA, USA, 8-13 June 1986, p.151-4 vol.1.  
Sponsors: IEEE.  
Published: IEEE, New York, NY, USA, 1986, 2 vol. vi+1044 pp  
Translation of: B12.  
COPYRIGHT BY Inst. of Electrical Engineers, Stevenage, UK

1

## IP.COM SEARCH

Search terms: **(angle or angular or azimuth or azimuthal or  
direction or directional) and (target or object) and (crossrange or cross-  
range)**

Displaying records #1 through 4 out of 4

Result # 1      Relevance: ○○○○○○



Method for high resolution radar imagery and accurate dimensional measurements

12-Sep-2000      IPCOM000001175D

English (United States)

This invention involves a method of processing radar returns to form two-dimensional images of targets such as ground vehicles, aircraft, ships, and so forth. Resolution in one dimension is provided by range resolution, and resolution in the other dimension is provided by ...

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Result # 2      Relevance: ○○○○○○



Time frequency processor for radar imaging of moving targets

12-Sep-2000      IPCOM000001698D

English (United States)

Conventional radar uses the Fourier transform to generate a radar target image. Constraints on the use of Fourier methods requiring point scatterers to remain in their range cells and requiring Doppler frequency shifts for point scatterers to be stationary are impractical ...

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Result # 3      Relevance: ○○○○○○



Aircraft attitude rate estimating device

12-Sep-2000      IPCOM000000950D

English (United States)

An Inverse Synthetic Aperture Radar (ISAR) imaging system provides an image of an incoming aircraft for the purpose of deciding which retaliatory tactic, if any, will be employed. By estimating change rates in attitude about one or more of the roll, pitch, and yaw axes, for ...

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Result # 4      Relevance: ○○○○○○



Discrete complex correlation device for obtaining subpixel accuracy

12-Sep-2000      IPCOM000000737D

English (United States)

This invention is directed to an image processing arrangement used to estimate image displacement relative to a reference frame. It comprises a discrete complex correlator, an associated interpolator, and a displacement estimator. The unique nature of the system is its ...